

CENTRAL INTELLIGENCE AGENCY  
**INFORMATION REPORT**

25X1A

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SUBJECT Partial List of Rumanian Requirements  
from Western Europe

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ACQUIRED

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(LISTED BELOW)

DATE OF INFO

SUPPLEMENT TO  
REPORT NO.

25X1X

**RETURN TO C.I.A.**

Attached herewith is a partial list of items and material urgently requested by the Rumanian Government. They are alleged to have attempted to purchase these items from the Soviet Union and the satellite countries without success, and are now attempting to purchase them in Western Europe for local currency, hard currency, or compensation goods.

CLASSIFICATION SECRET

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State Mines Lonea, Bucharest

Electric Locomotives

Two electric locomotives with overhead contact loop, for 550 V DC. The pulling force should be adequate to move a train of 20 cars with a load of 3,500-4,000 Kg each and of a dead weight of 2,500 Kg per car.

The tracks are made of a material weighing 17.65 Kg per meter; gauge is 790 mm; radius of curves at least 30 mm; maximal grade 25% for small distances; normally 10%. Normal speed for a grade of 10% should be 15-20 Km per hour. Horse power of locomotive approximately 160-180; weight 18-20 tons. The engines run on double tracks; there is to be a distance of 2500 mm between the axles; distance between the springs and the track is to be 3850 mm (sic, probably 385.0 mm). The locomotives are to have closed cabs, special attachments to remove snow and windshield wipers (for water). The cab is to permit vision in both directions and is to have enough space for two more persons in addition to the engineer. The locomotives are to be equipped with headlights, horns and heaters.

The offer is to contain an exact description of the mechanical design as well as operating directions for the motors on axles. It is to contain also statements on the track resistance as well as the serial and parallel arrangement of the motors.

In addition to the above, reserve parts, roller bearings, motors, and spare parts for five years are to be offered.

The locomotives are to be equipped with air brakes. The engines must be able to pass switches with a small radius of the curves.

Electric Motors

Two motors, 120 KV, with collector rings, three-phase AC 220/380 V, 50 h.p., firedamp proof, with free shaft, form B3, protection P 33m, insulation class B, power 10% above REM,  $n = 750$  p.m., including rotor and stator. The motors are to operate hauling switches for blind shafts and must be able to handle 65 connections per hour. The switching and protective attachments are to be included in the delivery. Type AEG Mf6f - Sk 255.309.

Two motors for 70 KW for the same purpose as above.

Electric Time Fuses

Twenty-thousand fuses with immediate and delayed action, inclusive of copper shell. Length of the wires two meters,  $\phi$  0.6 mm. Resistance  $0.9\Omega$ . Resistance of the electrical fuse  $1.1-1.4\Omega$ , with a tolerance of  $\pm 0.25\Omega$ . Copper fuse #8; Insulated wires; time intervals 2 seconds per phase. Delivery is to be made of three-phase fuses of a ratio 1/6, 1/3, 1/25; the first ratio pertains to the first-time fuse (with the shortest wick.)

The fuses are to go off at 0.8 A and are to be encountered in units of five: at 0.18 A they are not to go off for five minutes. Under damp storage they are to maintain their sensitivity and detonating capacity.

Flints

Five-thousand flints for safety lamps;  $\phi$  approximately 2.8-3 mm. Length about 20 mm. The flints must be hard.

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Steel

300 Kg high-speed steel for lathes, similar to Krupp Type DFM or Böhler Superrapid, or Poldi Maximum Special, in bars of:

16-25 mm	Assorted in equal amounts
20-30 mm	
25-35 mm	
30-40 mm	

500 Kg Tool Steel

2,000 Kg drill steel for mining drills, sexagonal, in bars of 4 and 6 meters lengths, similar to steel of Scholler Blackmann Phonix ~~MA~~, 22 and 26 mm, in equal amounts.

Mining Telephones

Twenty, in cast iron or light metal casings, protected against humidity and dust.

Air Ventilating Systems

15 Air-pressure hose ventilators: Ø of the hose 400 mm, of latest type; pressure 50-60 mm; capacity 60-80 m<sup>3</sup>/minutes.

5 hose ventilators with electric motor, firedamp proof, including switch and protector accessories.

5 Hose ventilators, electrically operated; depression; 80-100 mm, capacity 100-150 m<sup>3</sup>/minutes, including electric motor, and switch and protector accessories, firedamp proof. All ventilators are to be installed inside the pipe system and are to suck in and force out the air.

Offers must have all technical details (characteristic curves, specific consumption, weights, measurements, etc.) Spare parts for five years including roller bearings, electrical motors, wheels, turbines etc, are also to be offered.

Diesel Locomotives

Four diesel locomotives for work under ground, firedamp proof, for hauling of 50 dump cars, each car of 1,000 Kg load capacity, dead weight 500 Kg., grade 5 to 7%, speed approximately 10 Km per hour in both directions; track gauge 790 mm, smallest radius of curves 10 m; maximal measurements of the "Transportgalerie": 240 x 170 x 200 cm; weight: 6 to 8 tons; approximately 40 h.p.: The locomotives are to be equipped with acoustic and optical signal devices and with lights, all firedamp proof; they must also have an automatic starter.

Two diesel locomotives, approximately 15 h.p. of same type as above, but for hauling of 20 cars; weight about four tons. The locomotives must be equipped with an automatic switch to cut off the fuel in case of lack of cooling waters. There must also be a filter for the exhaust gases.

Kraftwerk Lonea - 5,500 V Line

- a. Four three-pole disconnecting switches of the contact series 10 KV for a nominal current of 350 A with three-pole signal contacts fastened to the activation gear (Betätigungswelle)
- b. 6 one-pole high voltage fuse elements of the 10 KV contact series, complete with set of fuses and melting filaments for protection against shorts of transformers (5,500 :110V)

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15,000 V Line

- c. Three-pole disconnecting switches of contact series 20 KV for a nominal current of 200 Amperes (otherwise like a) above.
- d. Three one-pole high-voltage fuse elements of contact series 20 KV, for protection against shorts of the grounding choke (capacity 750/250 VA; transformation: 15,000/110/110 V)
- e. Two three-pole disconnecting switches combined with grounding-short circuit device with mutual mechanical blocking. The disconnecting switch of the contact series of 20 KV is to be adequate for a nominal current of 200 Amperes.

Transformer Station MINA III - 15,000 V Line

- f. Three combination disconnecting and grounding switches (same type as under e.)
- g. Three three-pole disconnecting switches (same type as under c)
- h. Four complete high-voltage fuses (same type as those listed under d)

5,500 V Line

- i. One three-pole disconnecting switch (as a)

Transformer Station MINA II - 15,000 V Line

- j. One combination three-pole disconnecting and grounding switch (same as under e)
- k. Two complete high-voltage fuses (same as under d)

5,500 V Line

- l. Three-pole disconnecting switch (as under a)

High Frequency Line 15,000 V

- 1. 33,600 m = 14,500 Kg of electric conductor made from aluminum - steel, according to DIN, VDE 8204, cross cut 95 m<sup>2</sup>,  $\phi$  of entire conductor 13.4 m/m; ratio Al/steel 6.02; weight 375.5 Kg/Km; tension load 3.055 Kg.

The steel core; number of strands: 14-7  $\phi$  of strand: 1.65 m/m

Mechanical resistance: 120 Kg/mm<sup>2</sup>.

The aluminum covering:

Number of strands: 10 + 16 = 26

$\phi$  of strand: 2.1mm

Cross cut of the line: 90 mm<sup>2</sup>

Electric line: 34.84  $\Omega$ /mm<sup>2</sup>

Mechanical resistance-18 Kg/mm<sup>2</sup>

- 2. Small parts according to catalog of Hofmann, Radebeul 2, Dresden: 300 cap insulators, DIN/VDE, 807, "Reihe Kg"; length: 135 mm, Schir, diameter: 250 mm, with complete armoring for a "Kloppel" diameter of 16 mm.

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300 suspension loops for insulators with 16 mm (Kloppel". Catalog list No. 210.502. galvanized.

200 "Kloppelfannen" for insulators with 16 mm "Kloppel", lists No. 211, 601, galvanized.

60 Conus straining clamps, of steel-aluminum type DIN, VDE. 8204 with 95 mm<sup>2</sup> nominal cross-cut, for insulators with 16 mm, lists No. 146, 409, in cast iron, galvanized, with strong binding tape.

210 suspension clamps for insulators with 16 mm "Kloppel", for steel-aluminum cable of 95 mm<sup>2</sup> nominal cross cut; lists No. 115, 712 complete with binding wire of aluminum; clamps are to be made of cast iron galvanized.

36 Spacers for insulators with 16 mm "Kloppel", lists No. 214, 540. Link distance 400 mm; to be made of cast steel, galvanized.

40 Power clamps, for steel-aluminum wire of 95 mm<sup>2</sup> nominal cross cut; lists No. 170, 712; made of steel, galvanized with aluminum attachments.

36 double loops (eyes), lists No. 213, 501

60 notch connecting pieces, for steel-aluminum wires, type DIN, VDE 8204, with 95 mm<sup>2</sup> nominal cross cut, lists No. 30930, complete with tin attachments.

20 large notch pliers II, lists No. 05, 526 notch inserts with notch measuring rule; for steel-aluminum wires, type DIN.VDE 8204, of 95 mm<sup>2</sup> nominal cross cut, lists No. 05, 245.

1 large notch pliers I, lists No. 05, 526

2 notch inserts with notch rules, for steel conductors of 35 mm<sup>2</sup> nominal cross cut; lists No. 05, 132.

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Rumanian State Mining Works LONEA

Four pieces rotatory current - Oil transformers to be set up in the open with driving rollers diagonal to the longitudinal connection of the high-tension clamps equipped with oil saver (?), oil gauge, as well as adjustable temperature warning indicator for excessive temperature.

Equipped with three tapping points arranged on the high-tension voltage side, which (tapping points) can be used when the current is dead through a change-over switch brought into the casing.

Nominal output in continuous running 1750 KVA. Nominal voltage on the high-tension side: 15000 volts

Nominal voltage on the low-tension side: 5000 volts

Voltage of the tapping points: 15,600, 15,000, 14,490 v. high tension. 5,505, 5,498, 5,491 v. low tension.

Nominal current: 68/184 Amp. Frequency: 50 Kz.

Connection: A-2 (Stern/Stern)

Short circuit voltage: 6.13 %

The transformers must work absolutely parallel. At the request of the bidder the copper and iron losses are given separately. Likewise the weights of the transformers as well as the necessary oil filling are given separately.

Each unit is, as far as delivery possibility allows, furnished with a Buchholz safety apparatus, equipped with indicator and switch off contact, operating both on close circuit or working current.

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For the Station Plant of the LONES Power Works

15000 volt-side

One three-phase current-grounding coil in oil tank with built in oil saver, on the high-tension side with a star connection (with a zero point) which on the low-tension side has a measuring coil corresponding to class three. Power: 750/250 VA; Transformation: 15000/110/110 volts.

State Mine Works "LONEA", Bucharest

Ten units. Pneumatic winches of about 5 to 6 Hp with a drum.  $\phi$  of drum 120-200 mm, width about 200 mm. Planetary gear. Motor, if possible, built into the drum. The winch shall be built as small as possible; this must function mounted either on a horizontal or upright frame. Maximum weight 50 kg. Prototype AW 80 Sullivan.

Two units. Ditto, like type L 111 Sullivan, power up to 7 Hp. These winches shall be placed for transport into mine shafts (hauling winches).

Two units. Ditto, but operated electrically, for the same purpose. Current 3 x 220/380 V, 50/Hp, including motor and switch and protective appliances. Similar to type E 111 Sullivan.

One unit. Electric winch, about 15 hp. Planetary gear including motor, switch and protective appliances for the same current, Type Sullivan D 112-113.

Spare parts for five years

Electric Turbo Pneumatic Lamps

Fifty units. Electro-lamps operated with air pressure turbines; firedamp proof. With protective appliance against mine air; with pressure regulator of 3-6 Atm, for 6 V and 48 W. Type Wolff Nr. 0444/U; Weight of 7.6 kg; 7000 r.p.m. Including five pieces with projector type Nr. 0445/U and the necessary control fittings for this. Spare parts for five years (ball bearings, cylinder glasses, electric lights, etc.)

Inspection Lamps with Alkaline Storage Battery

Eight units. Safety lamps with reflector, complete, light, for mine inspection, like type Nr. 966/EO or 966/EOO Wolff, with chrome-nickel batteries, fire-damp-proof.

Spare parts: 16 batteries, 6 of these without fluid  
25 reflector mirrors  
5 reflectors  
100 electric bulbs

Two units. Safety lamps with head reflector, complete with light, like type 830 C Wolff, including fittings.

Spare parts: 4 batteries  
6 mirrors  
50 electric bulbs  
2 complete cables

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## Electric Motors for the Rumanian Oil Industry (Petrol export Bucharest)

Five units. 200 Kw. 5500 V in short circuit, 1456 r.p.m. (type AF 864 Form B 3K). Star-mesh switch, encased for underground work.

Six units. 10 Kw. 220/380 V. 1500 r.p.m. (Form B 3 Protection P 330 Gr.0) Insulation class A with coupling desk.

Four units. 19 Kw. 22/380 V 1452 r.p.m. (Form B 3 Protection P 33 Gr.0) as above.

Two units. Special motors for interrupted working periods to operate a mine hoist with 65 connections (125 Kw. 220/380 V. synchronized speed 750 r.p.m. nominal speed 739 r.p.m., completely closed model, Type AK 6.7067 Form B 3 protection P 33) Insulation class B with following accessories: coupling desk shaft NF 400, starting rheostat in oil bath (like model THGF 192/16E) for 65 connections apiece. Control coupling for 120 Kw. for the operation of a mine hoist 3 x 220 v. 50 h/p with 12 switches hand operated, in oil bath with extended clutch spindle for brake apparatus and apparatus for hoisting the oil tank.

One unit. Asynchronous, encased for operation of a centrifugal pump with continuous operation, switch apparatus, 65 Kw. 3 x 500 V. 2900 r.p.m. with complete automatic safety and switch apparatus.

The following motors are all for AC, 3 x 50, P, with star tricycle, free-running shaft, with the necessary safety and connecting devices:

1 Unit.	2 Kw.	3 x 500 V.	290	r.p.m.
1 Unit	15 Kw.	3 x 500 V.	1500	r.p.m.
1 Unit	5 Kw.	3 x 500 V.	3000	r.p.m.
1 Unit	10 Kw.	3 x 500 V.	3000	r.p.m.
2 Unit	75 Kw.	3 x 500 V.	for operation of pumps	
1 Unit	50 Kw.	3 x 500 V.	2930	r.p.m. for boiler-feeding pumps
3 Unit	70 Kw.	3 x 500 V.	for pumps	
2 Unit	3 Kw.		380/220 V.	1400 r.p.m.
7 Unit	7 Kw.		380/220 V.	960 r.p.m.
1 Unit	8 Kw.		380/220 V.	960 r.p.m.
3 Unit	12 Kw.		380/220 V.	1400 r.p.m.
8 Unit	15 Kw.		380/220 V.	2800 r.p.m.
2 Unit	10 Kw.		380/220 V.	2800 r.p.m.
5 Unit	5 Kw.		380/220 V.	2800 r.p.m.
16 Unit	1 Kw.		380/220 V.	2800 r.p.m.

Centrala Industriilor si derurgice (Central Office of Foundry)

1. Electric motors 2500 h.p. with reducing gear on 70 r.p.m. without fly desk, started at  $\frac{1}{2}$  load, special construction for drive of rolls, can stand 100% overload, 3000 volt, 50 r.p.s.

1 Electric motor 1000 hp with reducing gear. 36 r.p.m. 6000 V., 50 P/sec. rest as above.

List of Requirements of the Rumanian Communications Ministry, (Administratia, Porturilor si, Comunicatiilor pe Apa.)

Fire brigade hemp hoses	2,500 meters	Ø	2 inches
Working pressure 12 atm.	1,000 meters	Ø	3 inches
Impregnated fabric for ships Graphite crucible.	1,000 meters		.80 Kg. /sq. meters
	5		100 Kg.
	10		150 Kg.
	1		200 Kg.

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Electric cable KNBA	500	meter	3 x 95	x 50	mm
underground for 1KV	1,200	"	3 x 70	x 35	"
	1,350	"	3 x 50	x 35	"
	3,000	"	3 x 35	x 25	"
	500	"	3 x 35	x 16	"
	4,000	"	3 x 25	x 16	"
	1,300	"	3 x 16	x 16	"
	8,350	"	3 x 10	x 10	"
	6,750	"	3 x 6	x 6	"
	200	"	3 x 6	x 2.5	"
	1,000	"	2 x 2.5	x 2.5	"
Ditto	1,200	"	1 x 50	x 2	mm
	300	"	1 x 185		"
	640	"	1 x 50		"
	500	"	1 x 35		"
	320	"	1 x 25		"
	380	"	1 x 16		"
	1,840	"	1 x 90		"
Ditto	800	"	3 x 25		"
	100	"	3 x 50		"
	80	"	6 x 16		"
	1,000	"	1 x 400		"
	160	"	1 x 40		"
Electric Cable Type NBEU	930	"	3 x 6		"
	1,600	"	3 x 4		"
	2,750	"	3 x 2.5		"
	300	"	3 x 1.5		"
	300	"	2 x 2.5		"
	3,600	"	2 x 1.5		"
	600	"	3 x 16		"
	100	"	3 x 4		"
	200	"	3 x 2.5		"
	300	"	3 x 1.5		"
	300	"	4 x 6		"
	200	"	4 x 10		"
	200	"	2 x 4		"
	200	"	2 x 6		"
	200	"	3 x 25		"

Electric Hand Drill 16 Units.  $\phi$  1-20 mm. With corresponding twist drills.  
 Direct current 220 or 440 volts.

Worthington pumps 300 cubic meters a piece 1 unit.

Centrifugal pumps, operated by combustion engine. 2 units. Power 300 cubic meters a piece.

Converter to 540 Kw. from 6000 V. 50 P. to 440 x 480 V. Direct current with complete equipment if possible with cooling, closed without vacuum pump.

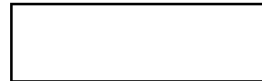
Normal current - Power 1200 A. 440-480 V. The overhead contact hoops are electric motors for direct current with almost constant continuous load. The alternating current is three-phase 6000 x 5% V-50P. 3

### 3 Units

Generator for direct current 100 hp.	1 Units	
Electric motor-compressors	4 Units	1 Unit power 6 m <sup>3</sup> apiece
Direct Current 110 V.		3 Unit Power 30 m <sup>3</sup> apiece
Ditto 30 atd	1 Units	Power 360 m <sup>3</sup> apiece

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Sprinkler Car	1 Unit	2000 liter with sprinkler and
Diesel dynamo welding set	1 Unit	sweeping attachment
Diesel dynamo welding set	1 Unit	Diesel 45 h.p. Dynamo direct current 6 Kw.
Ditto Diesel electric motor	1 Unit	Diesel 45 h.p.
	3 Units	Diesel 10 h.p.
Diesel dynamo compressor groups	2 Units	1 unit. 45 h.p. coupled with compressor 50 m <sup>3</sup> , 4 atu. 1 Unit with dynamo, direct current 18 Kw.

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